

Fig. 1

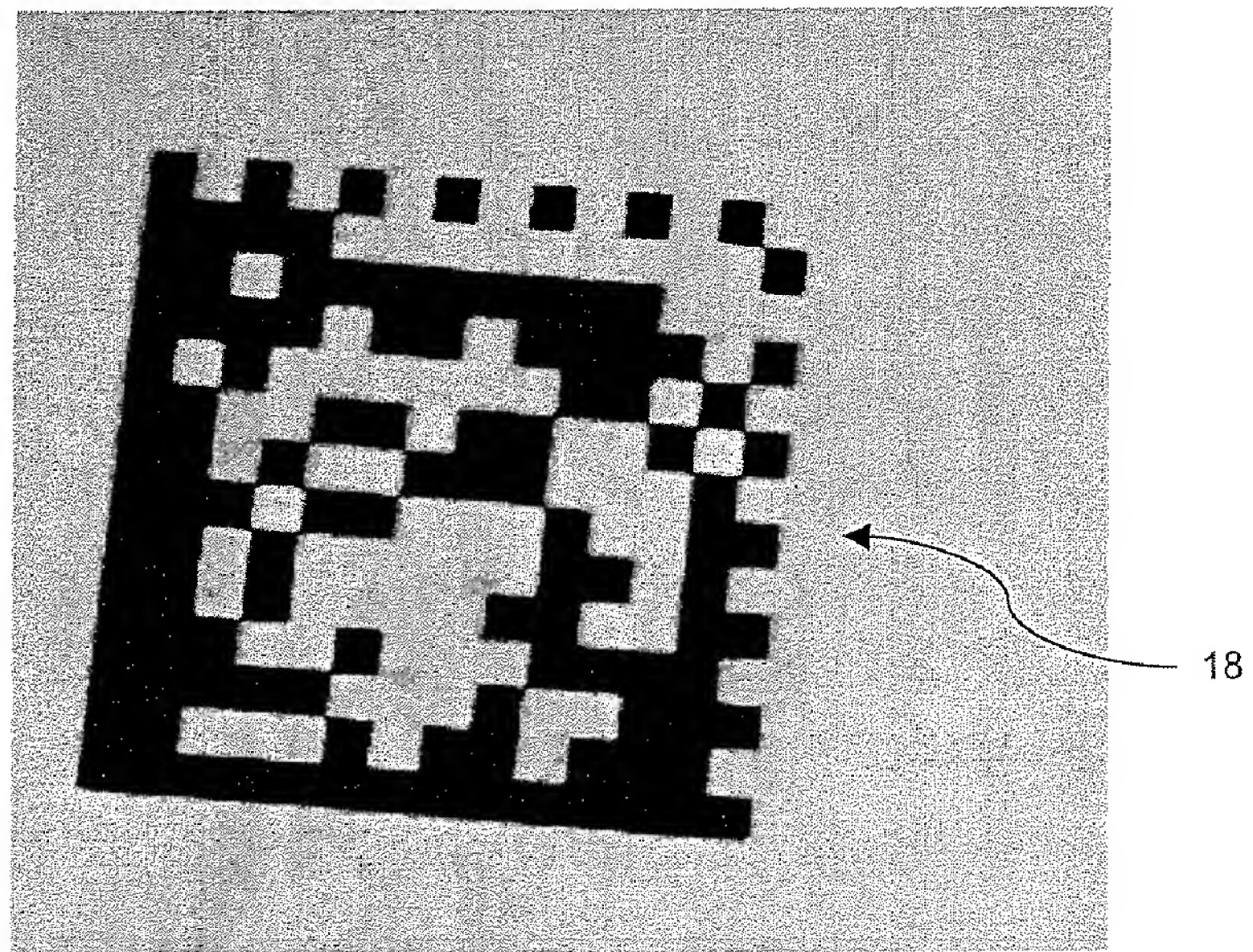


Fig. 2

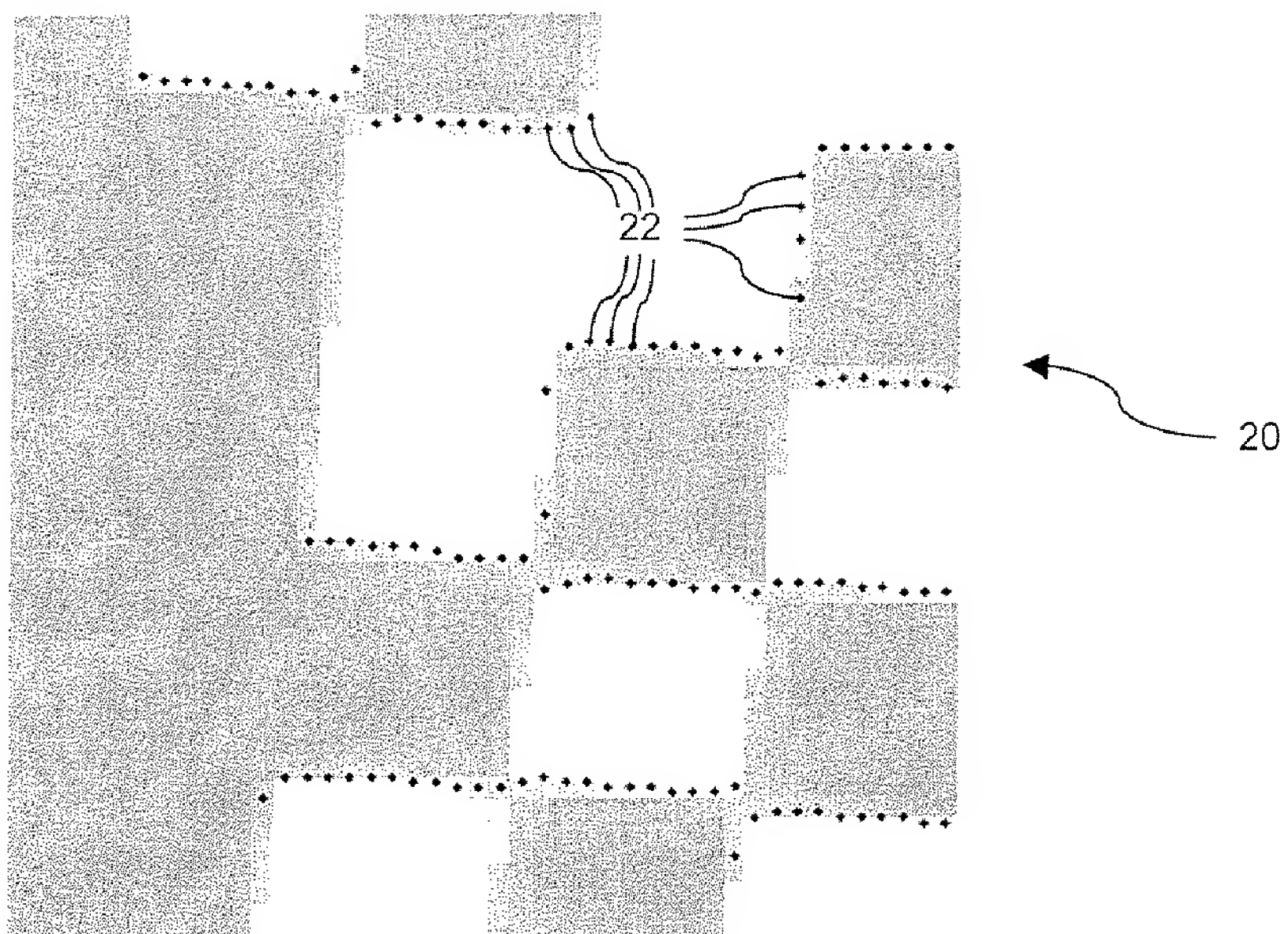


Fig. 3

NBD	1	2	3	4	5	6
1			3,1			
2			3,2			
3			3,3			
4			3,4			
5			3,5			
6						

NBD	1	2	3	4	5	6
1						
2			3,2			
3			3,3			
4			3,4			
5			3,5			
6			3,6			

Fig. 4

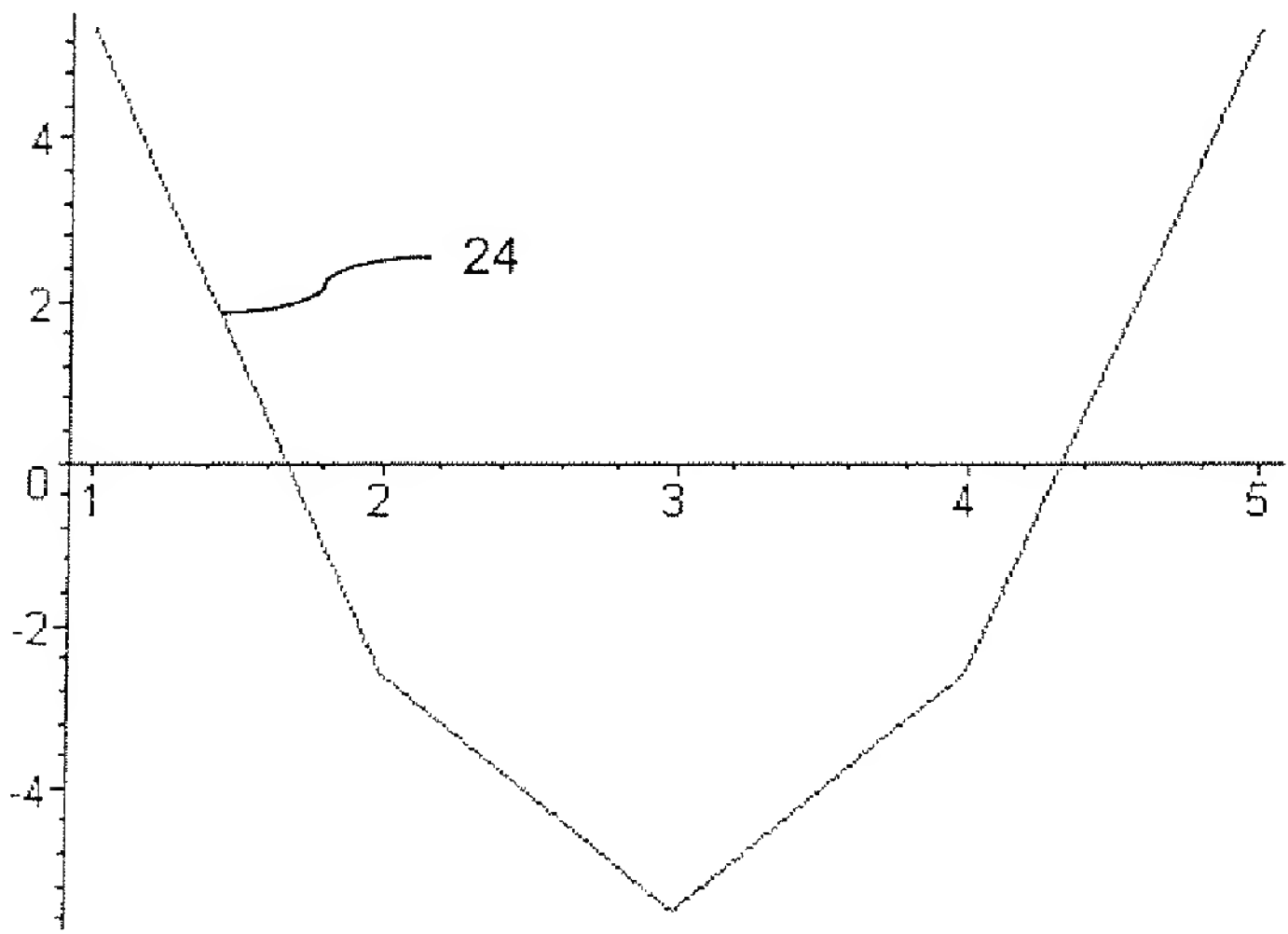


Fig. 5

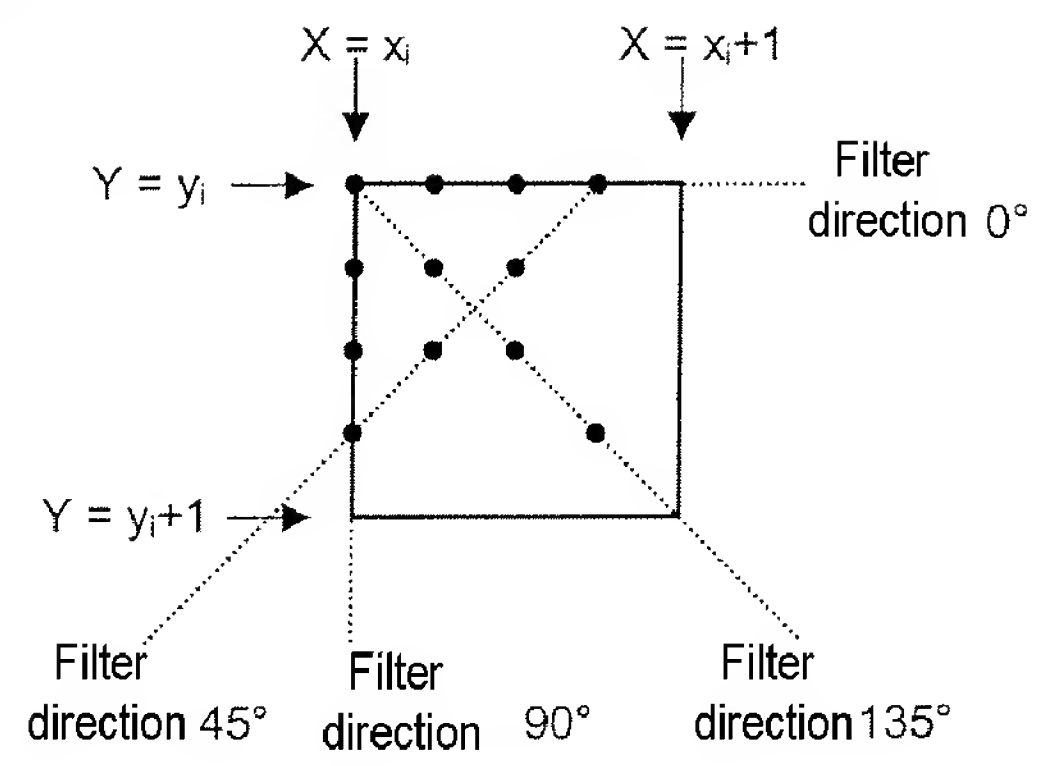


Fig. 6

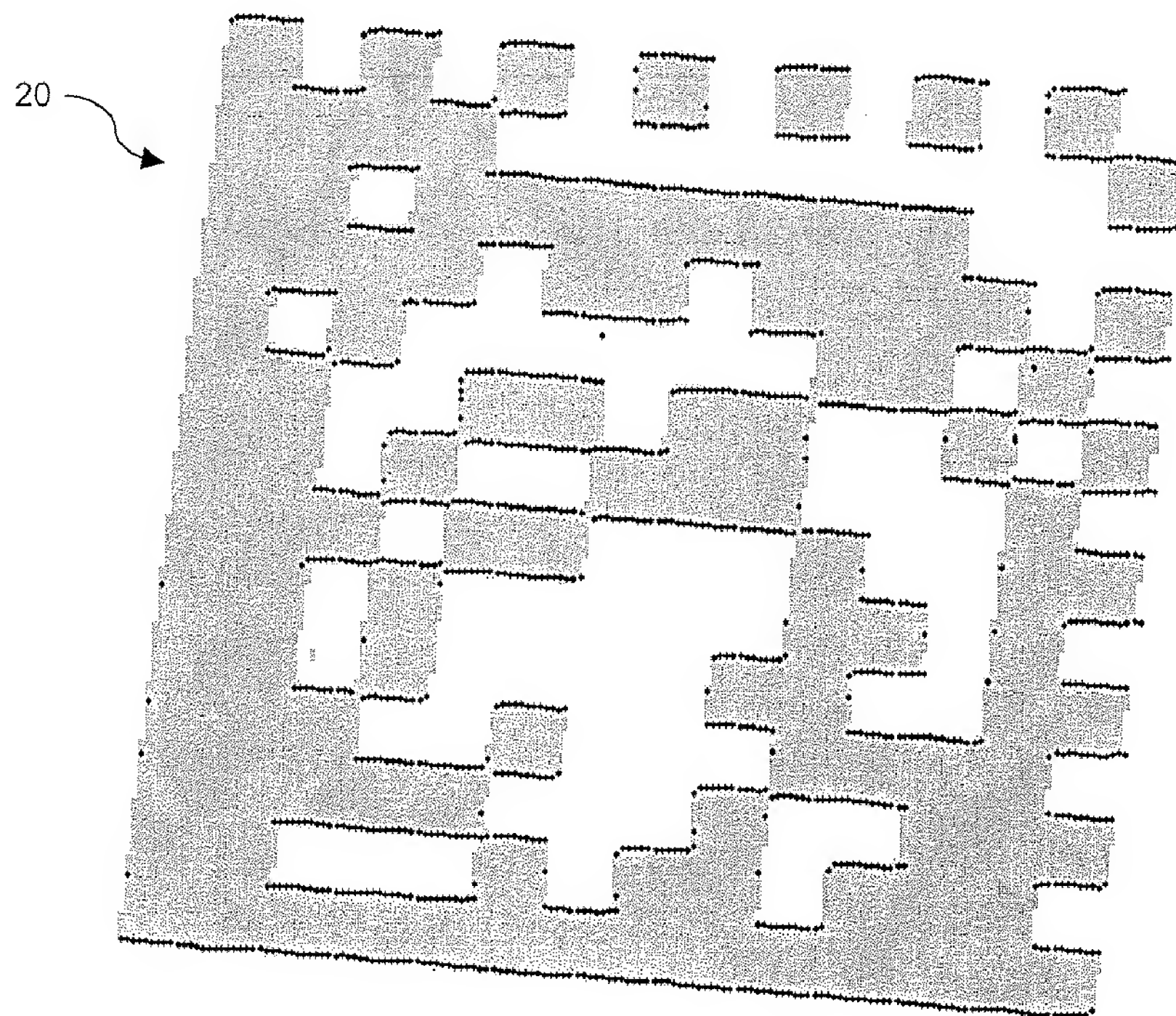


Fig. 7

Filter direction	Edge direction	X coordinate of the contour point 1	Y coordinate of the contour point 1
0°	90°	$x_i + \Delta\delta$	$y_i$
90°	0°	$x_i$	$y_i + \Delta\delta$
45°	135°	$x_i + 0,75 \cdot \Delta\delta$	$y_i + \Delta\delta$
135°	45°	$x_i + \Delta\delta$	$y_i + \Delta\delta$

Fig. 8

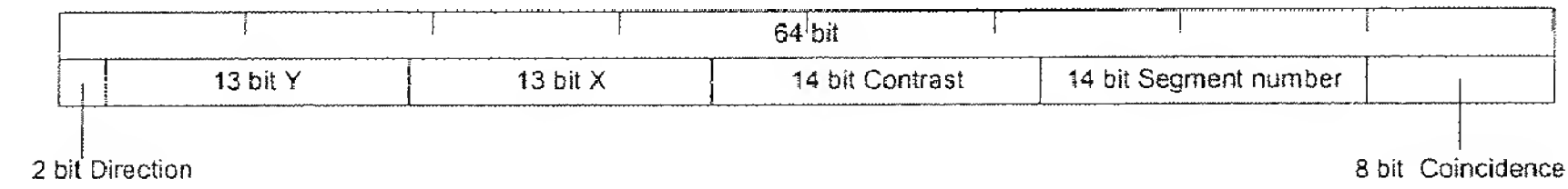


Fig. 9

```
00 18 76 B0 B6 00 01 00    40 1E AF 00 88 80 02 00
80 18 AE 00 1F 80 03 00    80 1E AE 4F CB 80 04 00
...
81 CC E2 C0 57 80 62 00    81 D4 E2 80 78 C0 5E 04
81 D4 E3 00 34 80 5E 04    81 D2 E3 80 2F 40 5E 00
...
D8 22 C9 D0 D2 12 B7 00    D8 22 CB 10 26 92 C5 00
00 00 00 00 00 00 00 00
```

Fig. 10

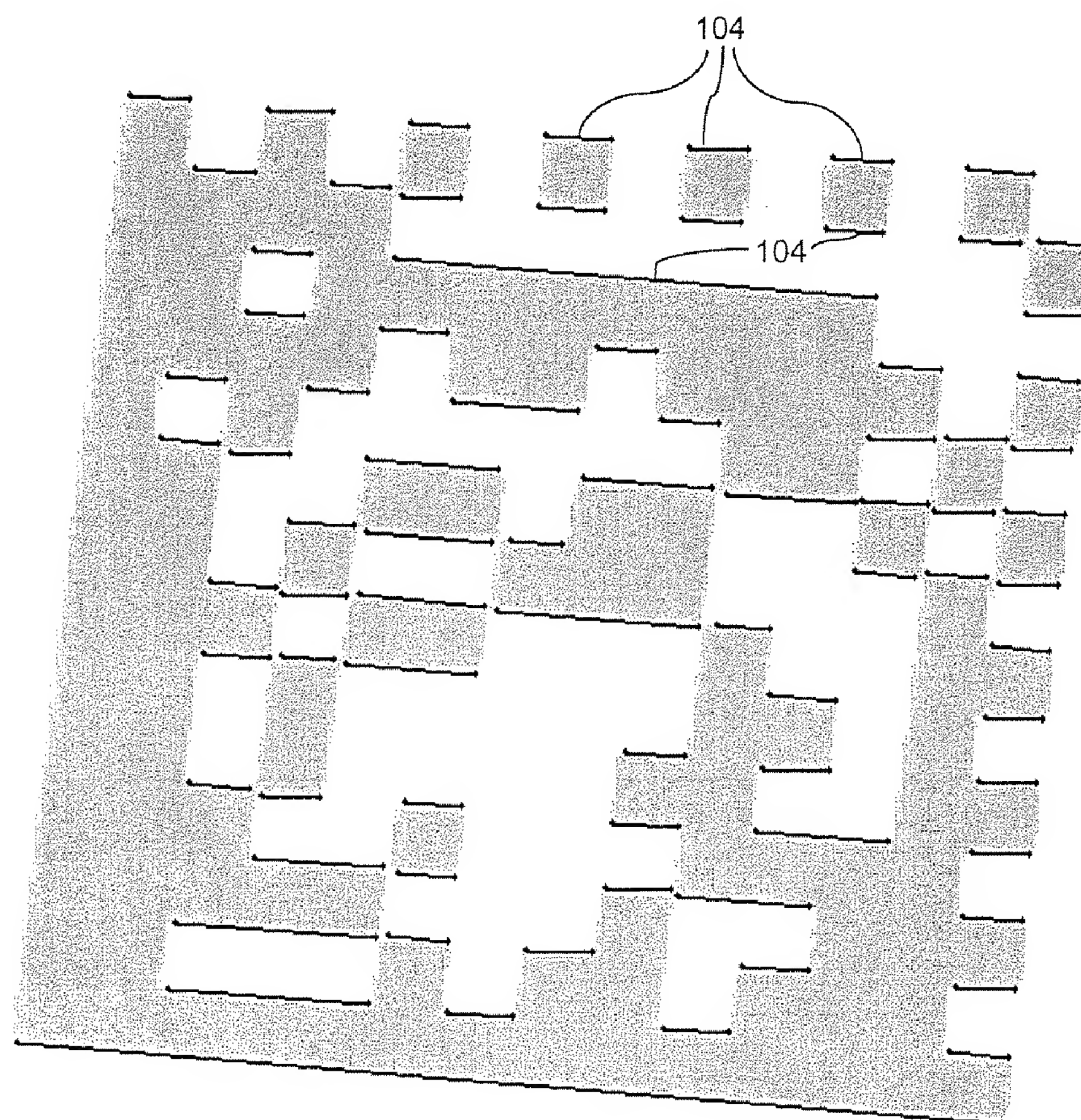


Fig. 11

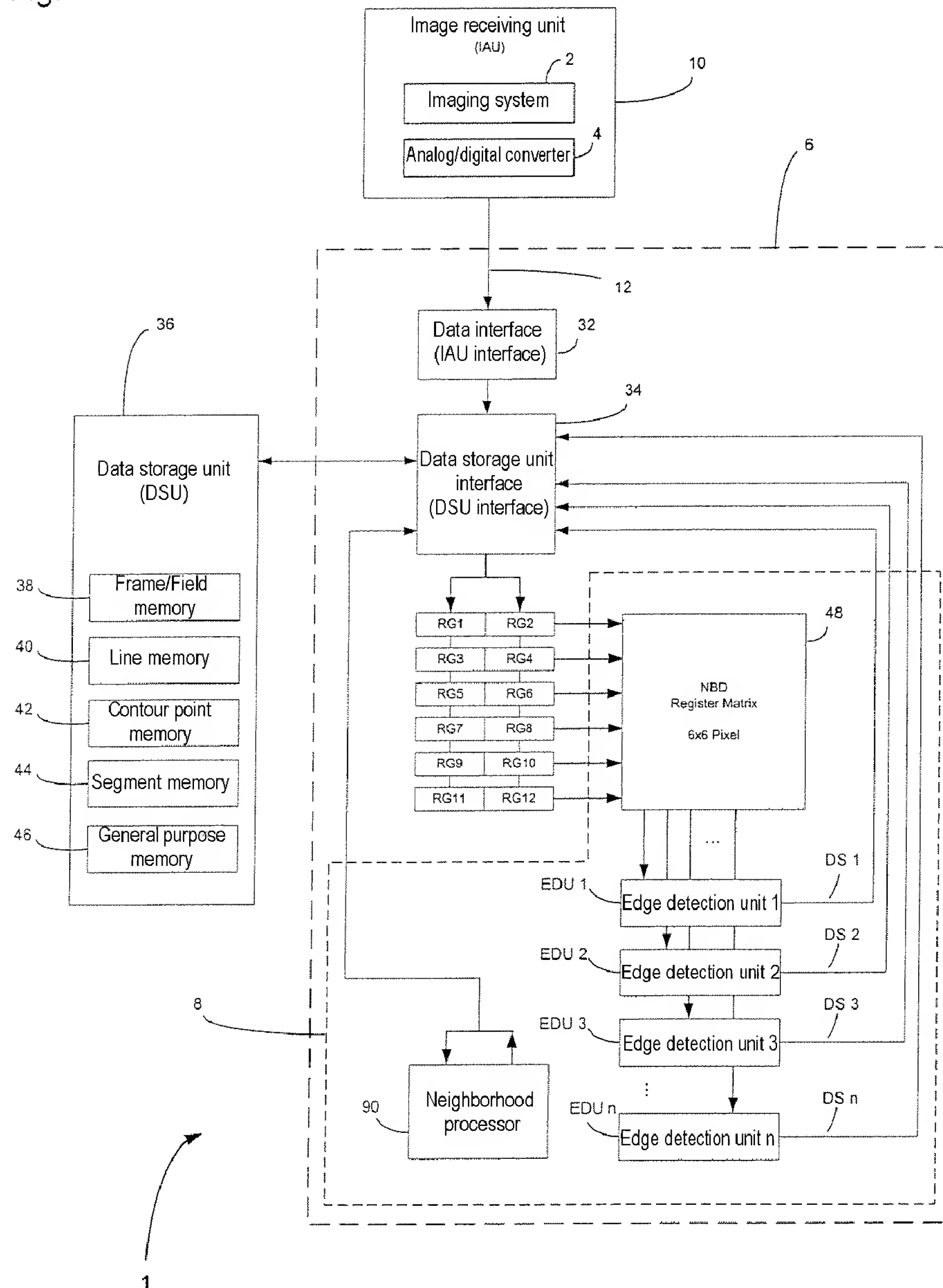




Fig. 13

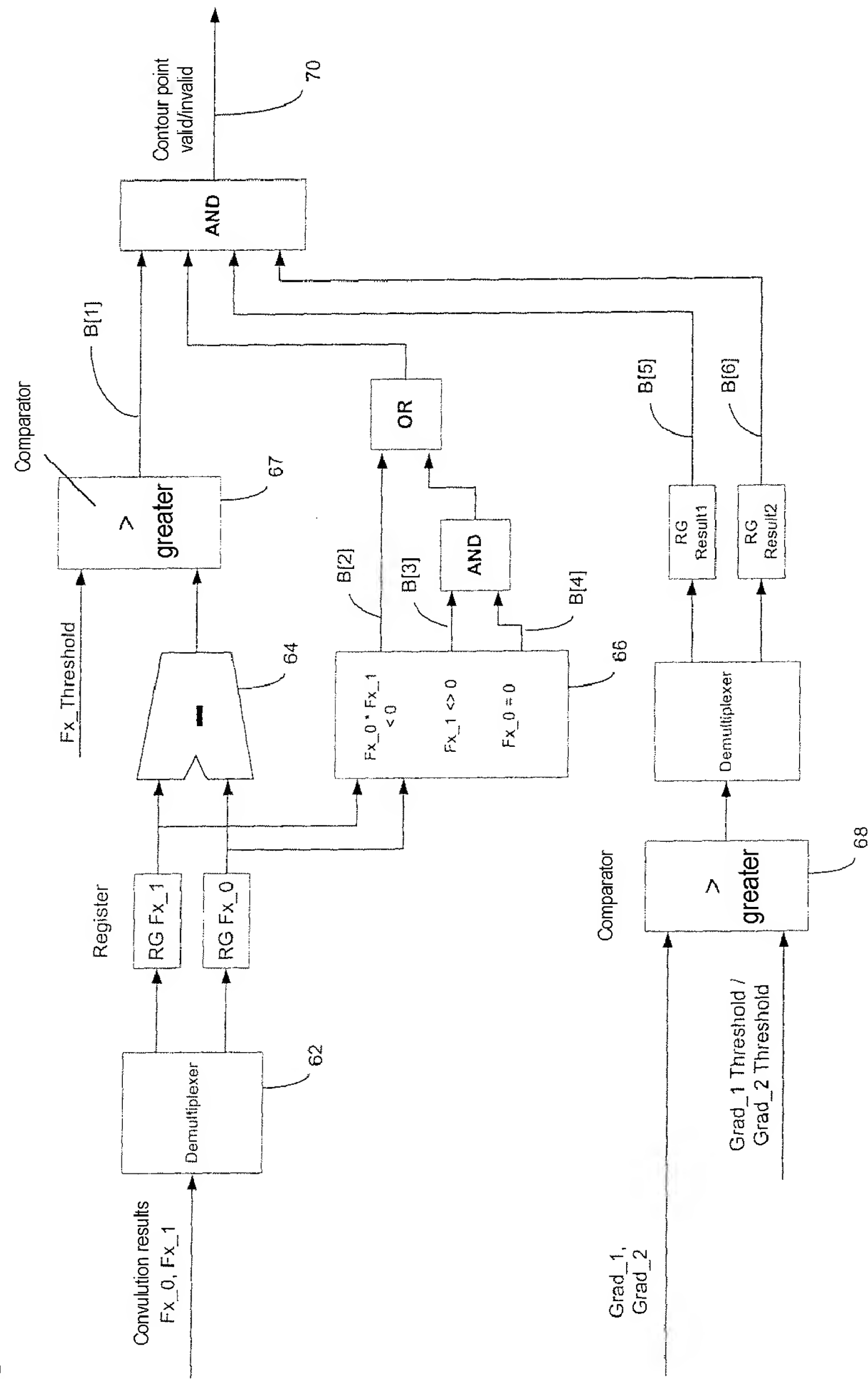


Fig. 14

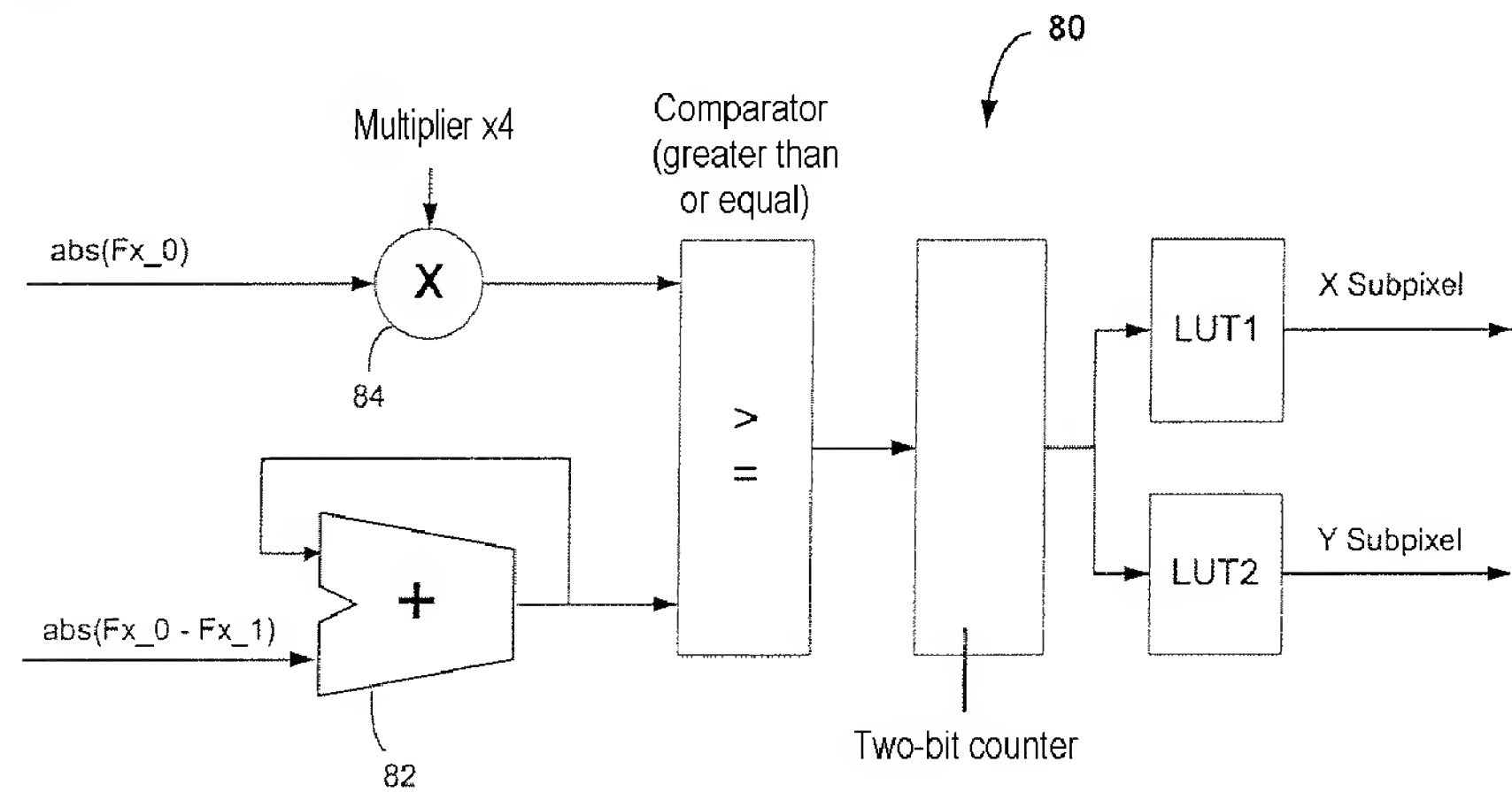


Fig. 15

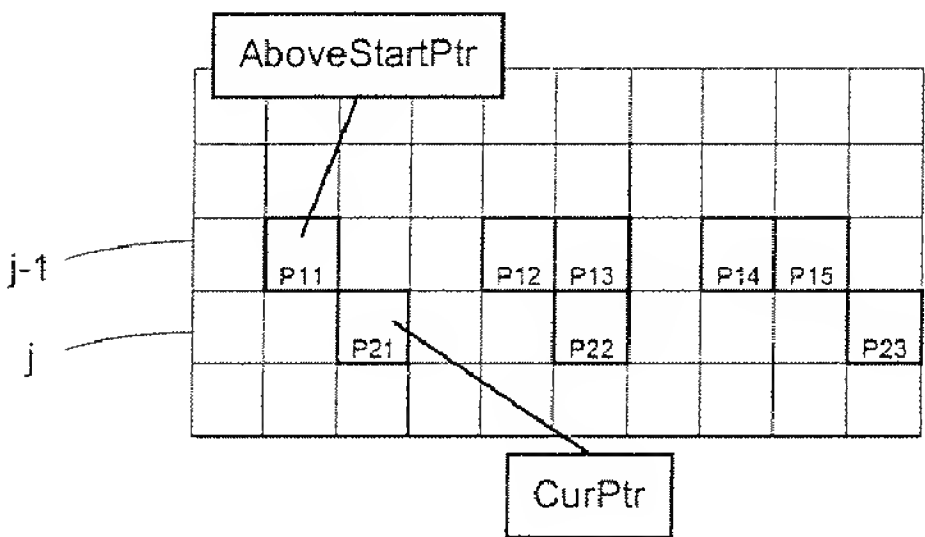


Fig. 16

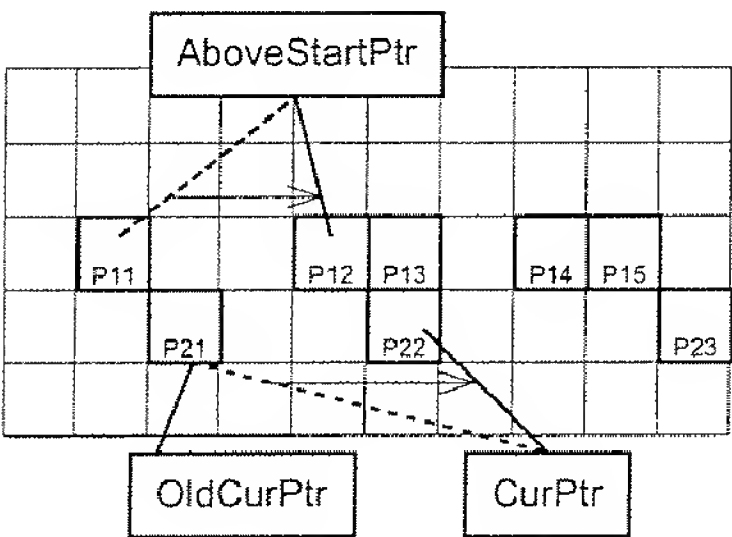


Fig. 17

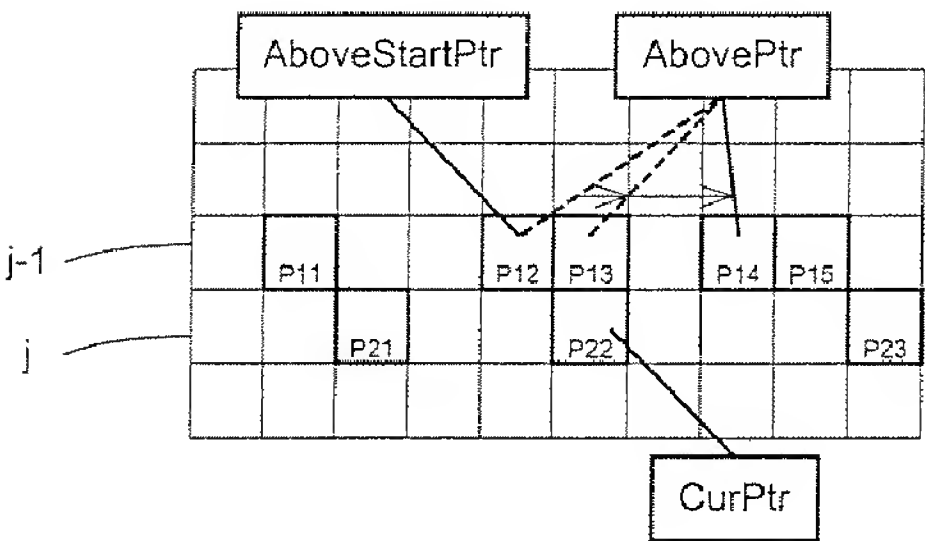


Fig. 18

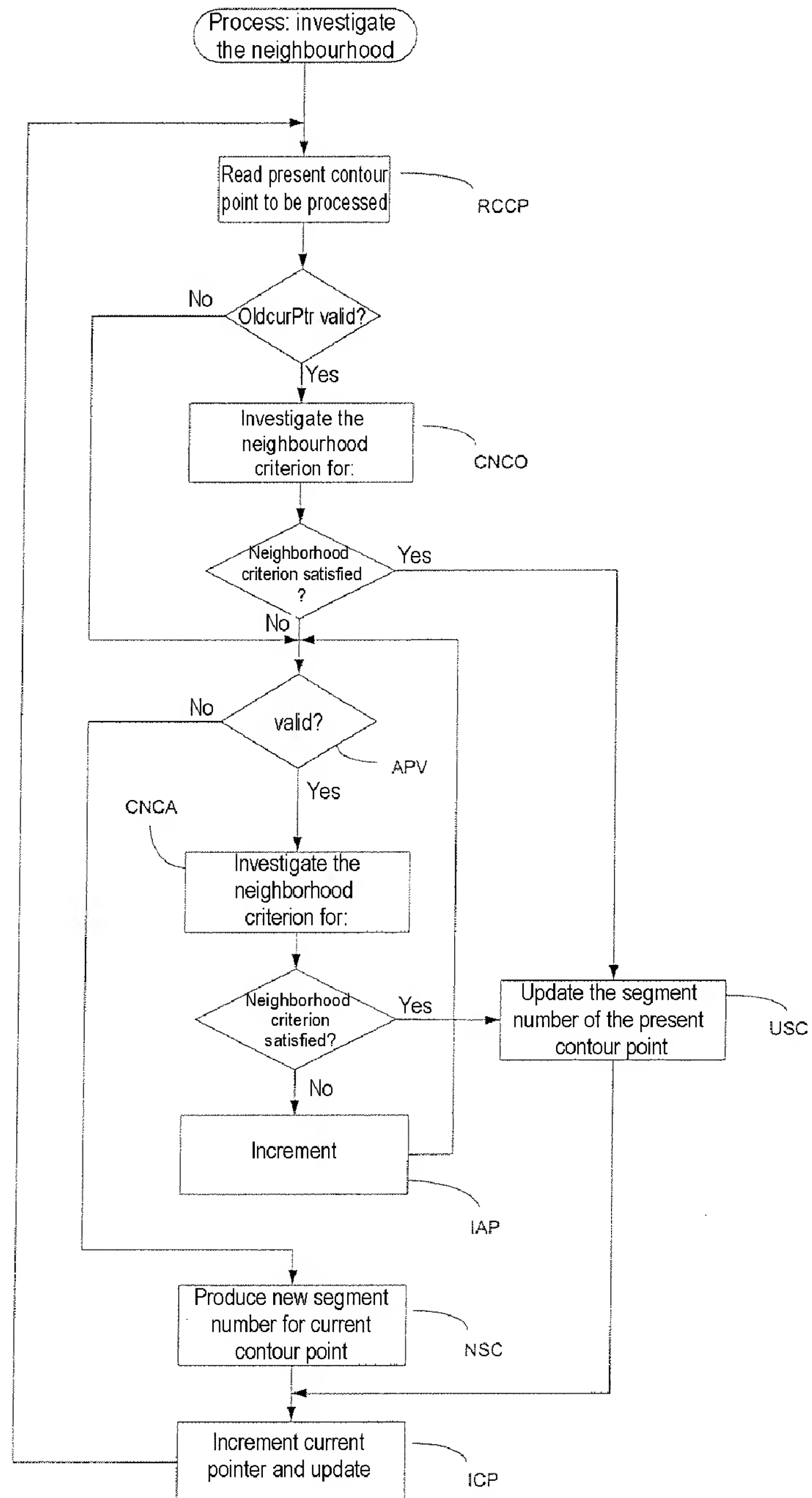


Fig. 19

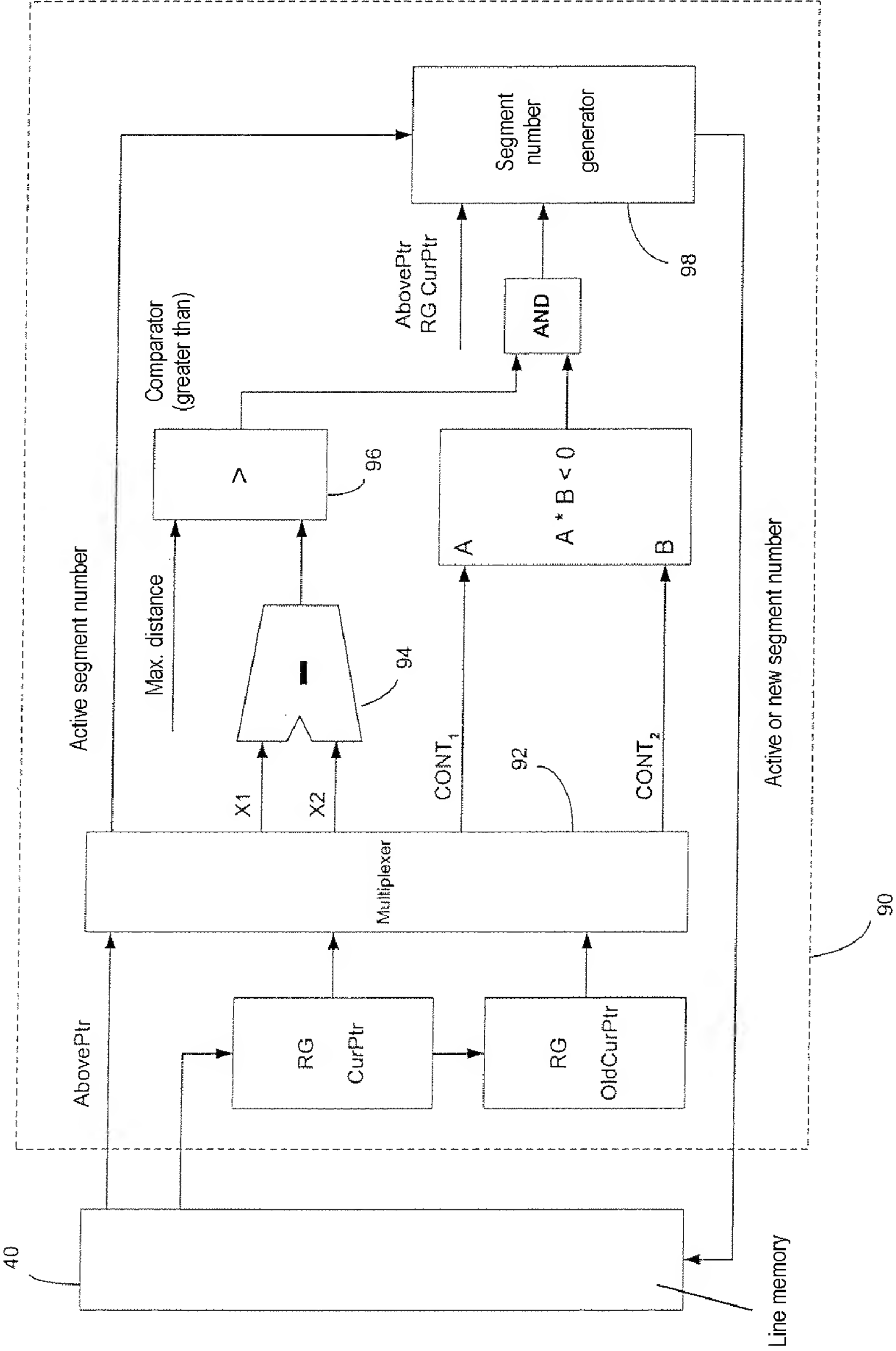


Fig. 20

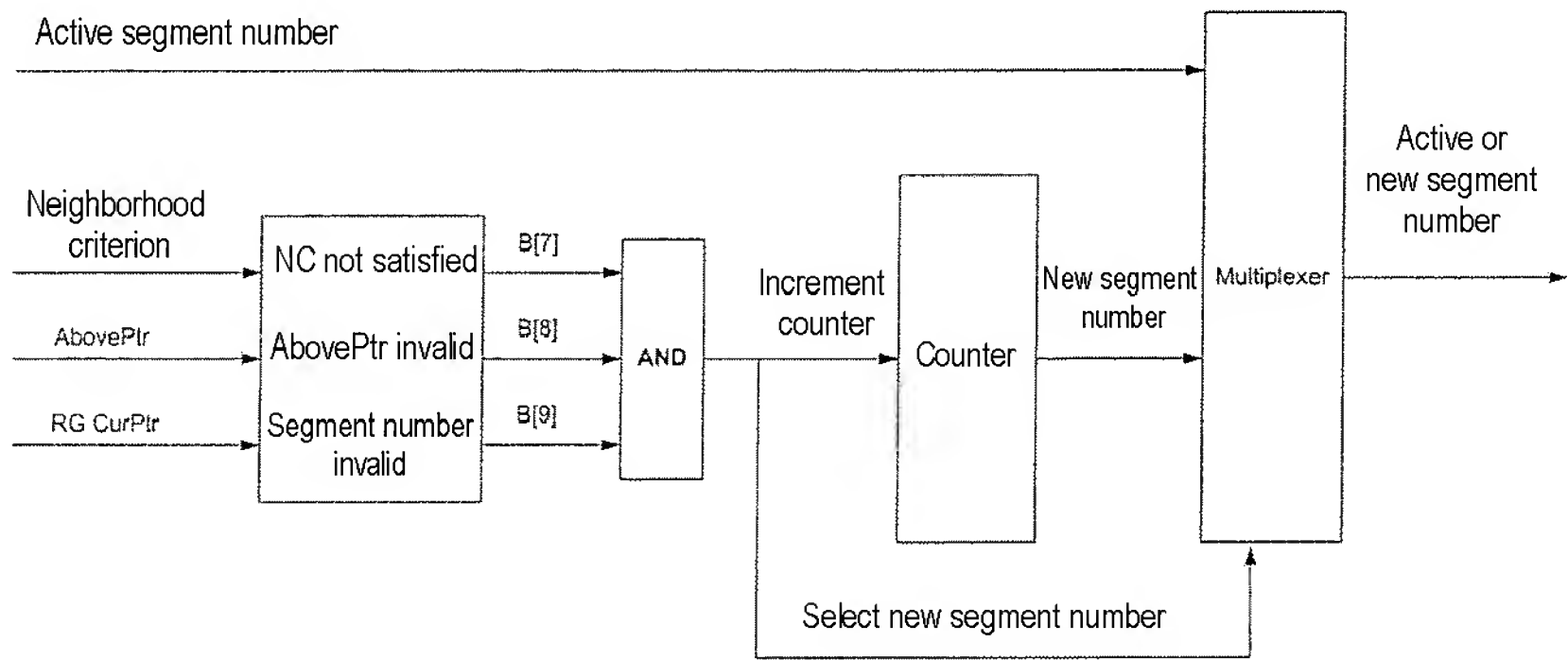


Fig. 21

		Data pipeline DP1				Data pipeline DP2		
Clock	Out1	Out2	Add1	Mult1	Acc1	Out3	Z <sup>-3</sup>	Mult2
0	P2	P4				P3		
1	P1	P5	P2+P4			P3		
2	P3	P5	P1+P5	(P2+P4) CONV[2]		P4		
3	P2	P6	P3+P5	(P1+P5) CONV[1]		P4	P3	
4			P2+P6	(P3+P5) CONV[2]	(P2+P4) CONV[2] + (P1+P5) CONV[1]	P3	P3 CONV[3]	
5				(P2+P6) CONV[1]		P4	P3 CONV[3]	
6					(P3+P5) CONV[2] + (P2+P6) CONV[1]	P4	P4 CONV[3]	
7							P4 CONV[3]	
8								
9								
10								

Data pipeline DP3						Decision unit	Contour point
Clock	Acc2	Out4	Out5	Acc3	Acc4		
0		P1	P2				
1		P5	P6	P1+P2			
2		P3	P4	P5+P6	P1+P2		
3		P5	P6	P3-P4	(P1+P2)-(P5+P6)		
4				P5+P6	P3-P4	(P1+P2) - (P5+P6) > Grad_1 Threshold?	
5	GPx_0				P3-P4	(P3-P4) > Grad_2 Threshold?	
6							
7	GPx_1						
8						GPx_1 - GPx_0	
9						GPx_1 - GPx_0 > Fx_Threshold?	
10							Valid or Invalid

Fig. 22

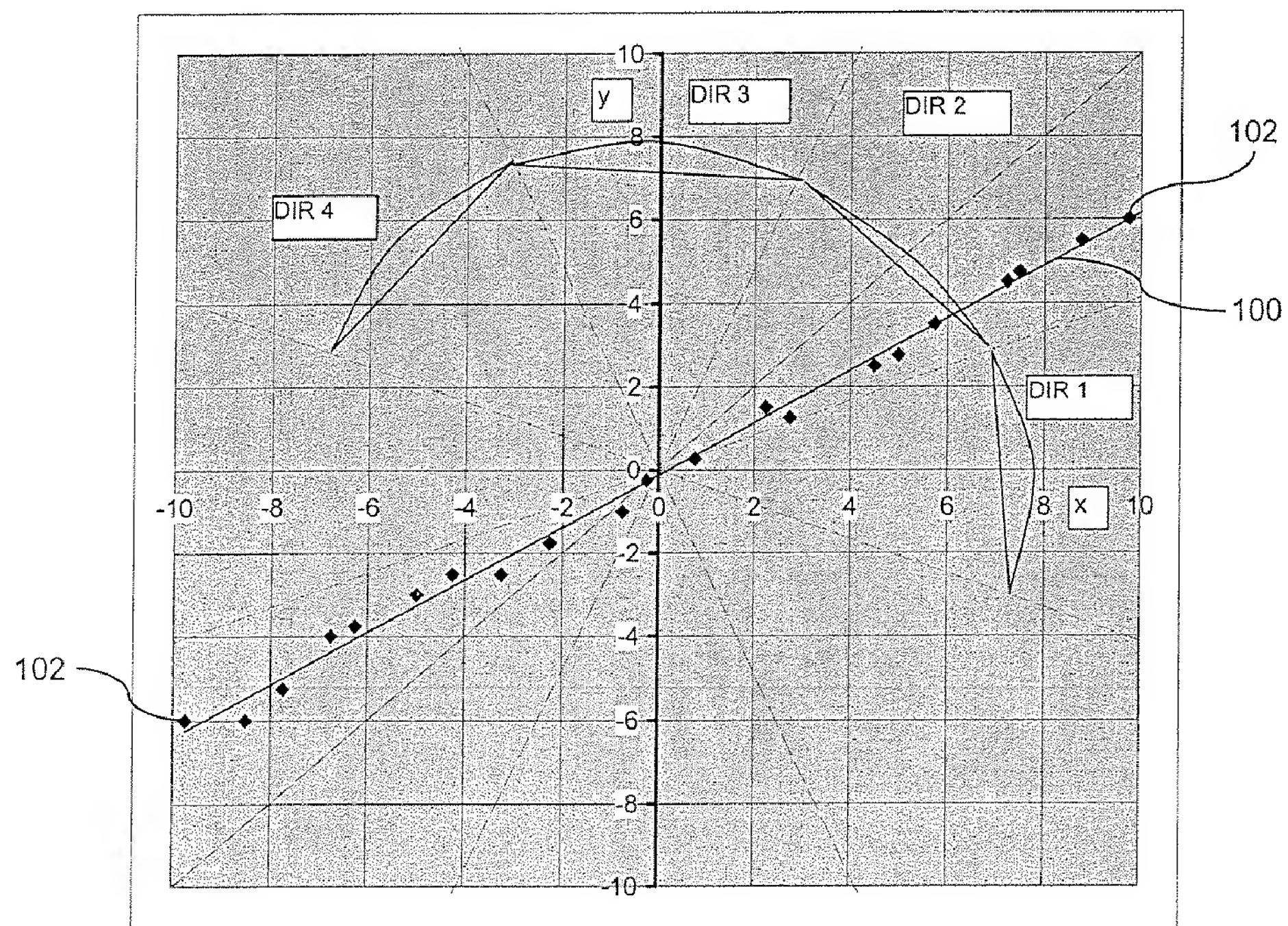


Fig. 23

